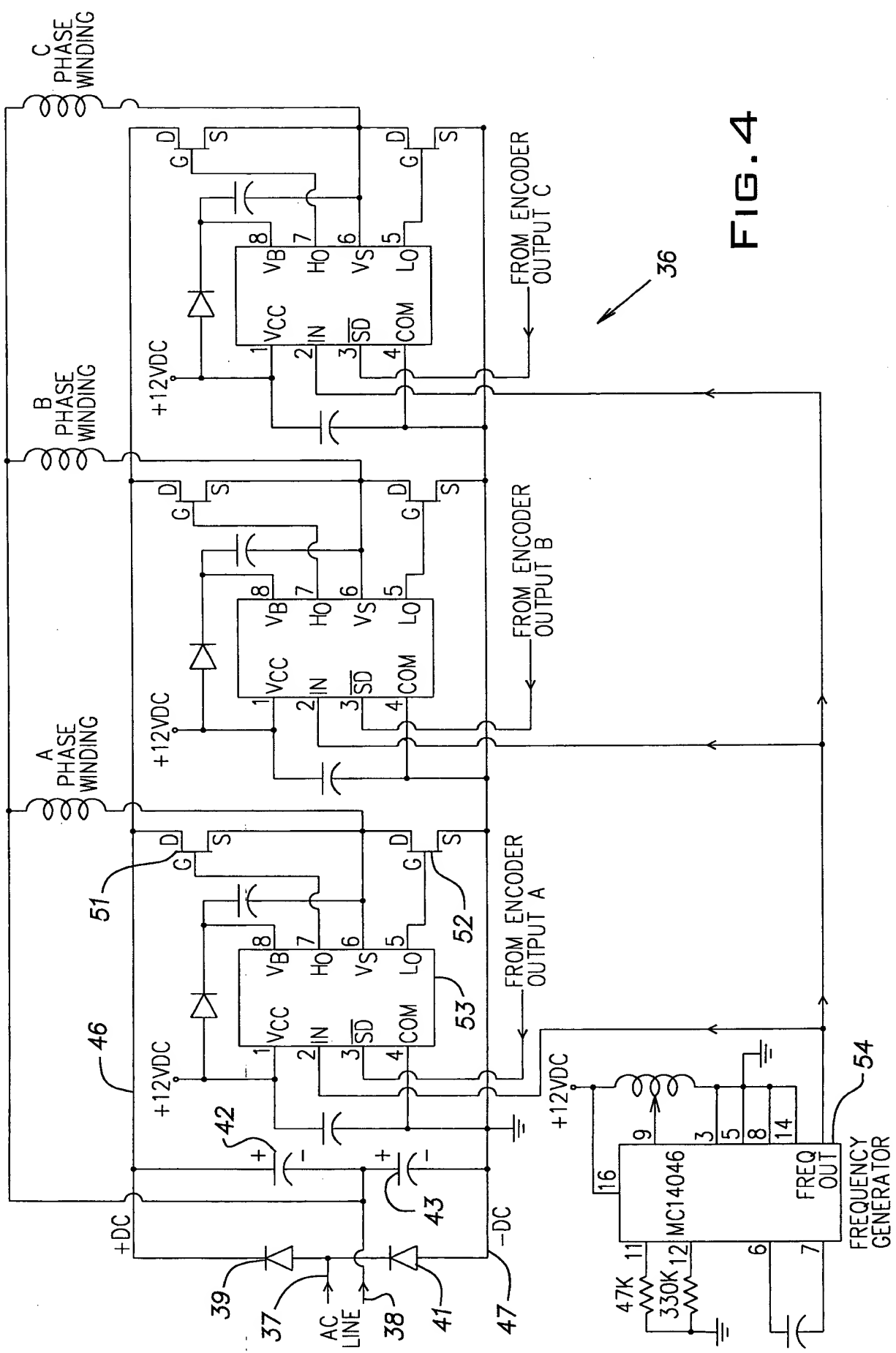


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INVERTER SQUARE WAVE

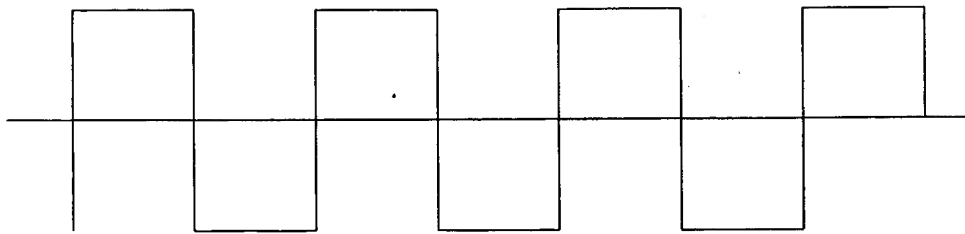


FIG. 6A

CYCLE WIDTH CONTROL OF POWER

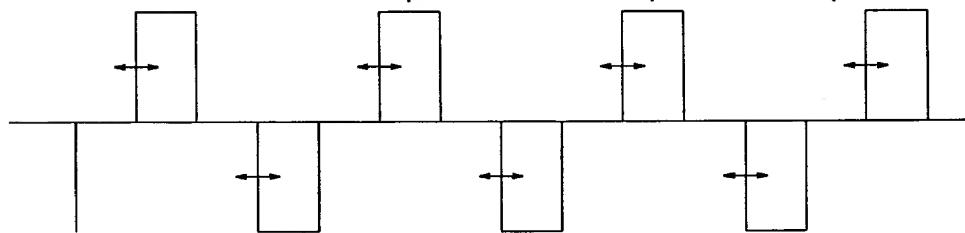
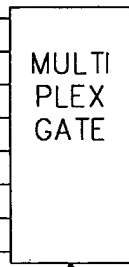


FIG. 6B

SHAFT SENSOR
SIGNALS

a
b
c
d
e
f
g
h

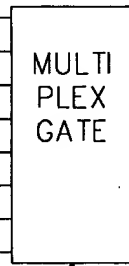


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TO PHASE a
DRIVER

SHAFT SENSOR
SIGNALS

a
b
c
d
e
f
g
h



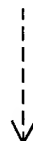
63

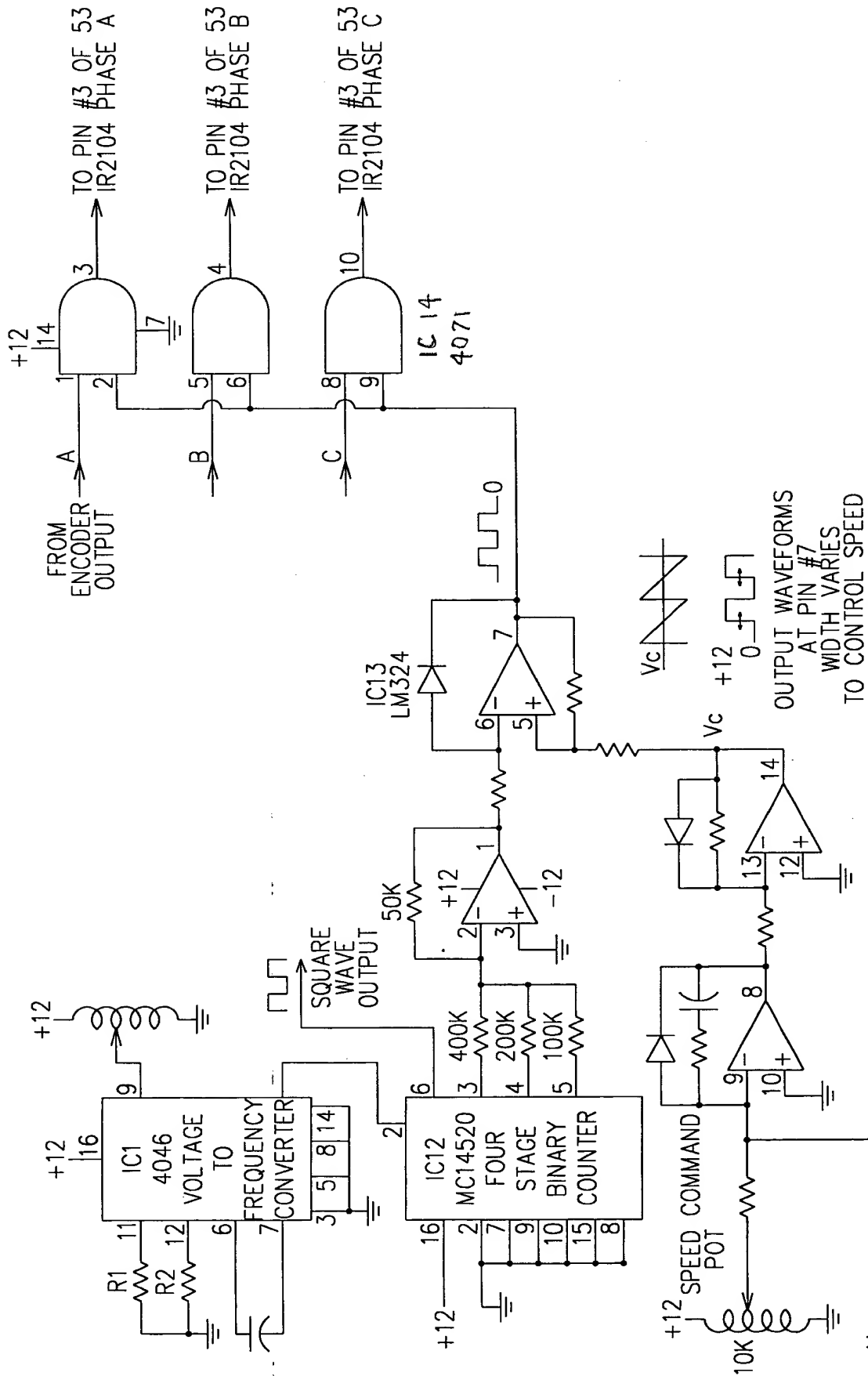
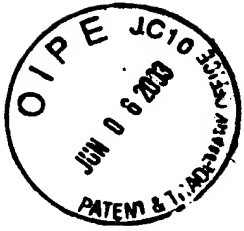
TO PHASE b
DRIVER

FIG. 9

SELECT
SIGNAL

AND SO ON FOR
ALL EIGHT PHASES





SPEED CONTROL METHOD BY VARYING THE
CYCLE WIDTH OF THE POWER FREQUENCY

FIG. 7



SAWTOOTH WAVEFORM AT PIN#1 IC13

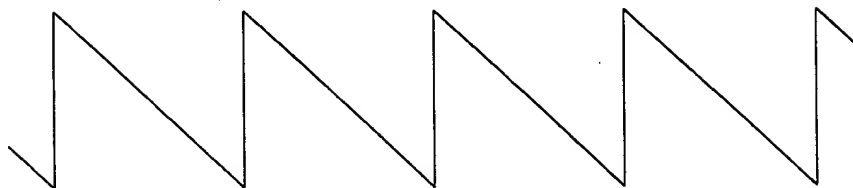


FIG.8A

SQUARE WAVE OUTPUT PIN#6 IC12

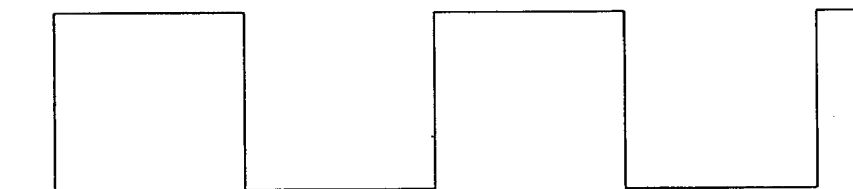
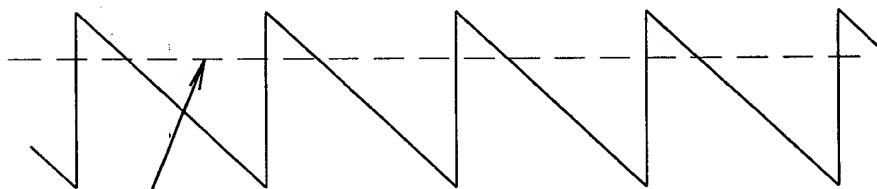
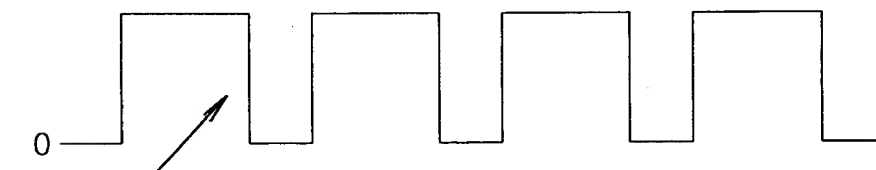


FIG.8B



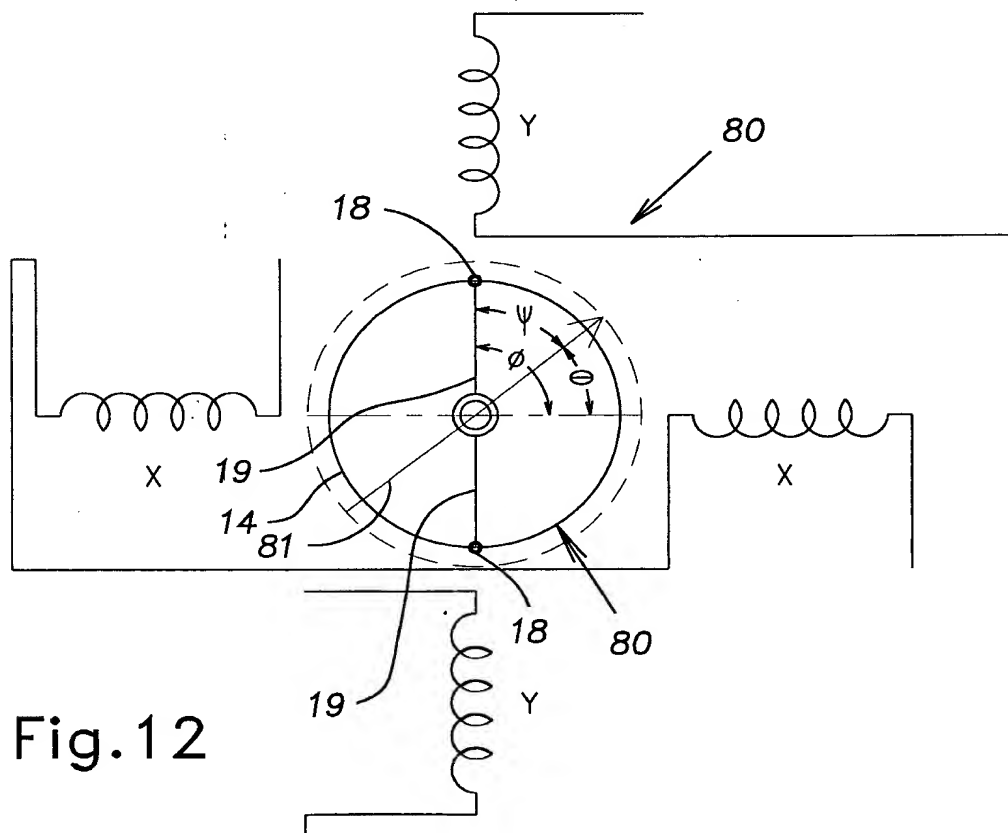
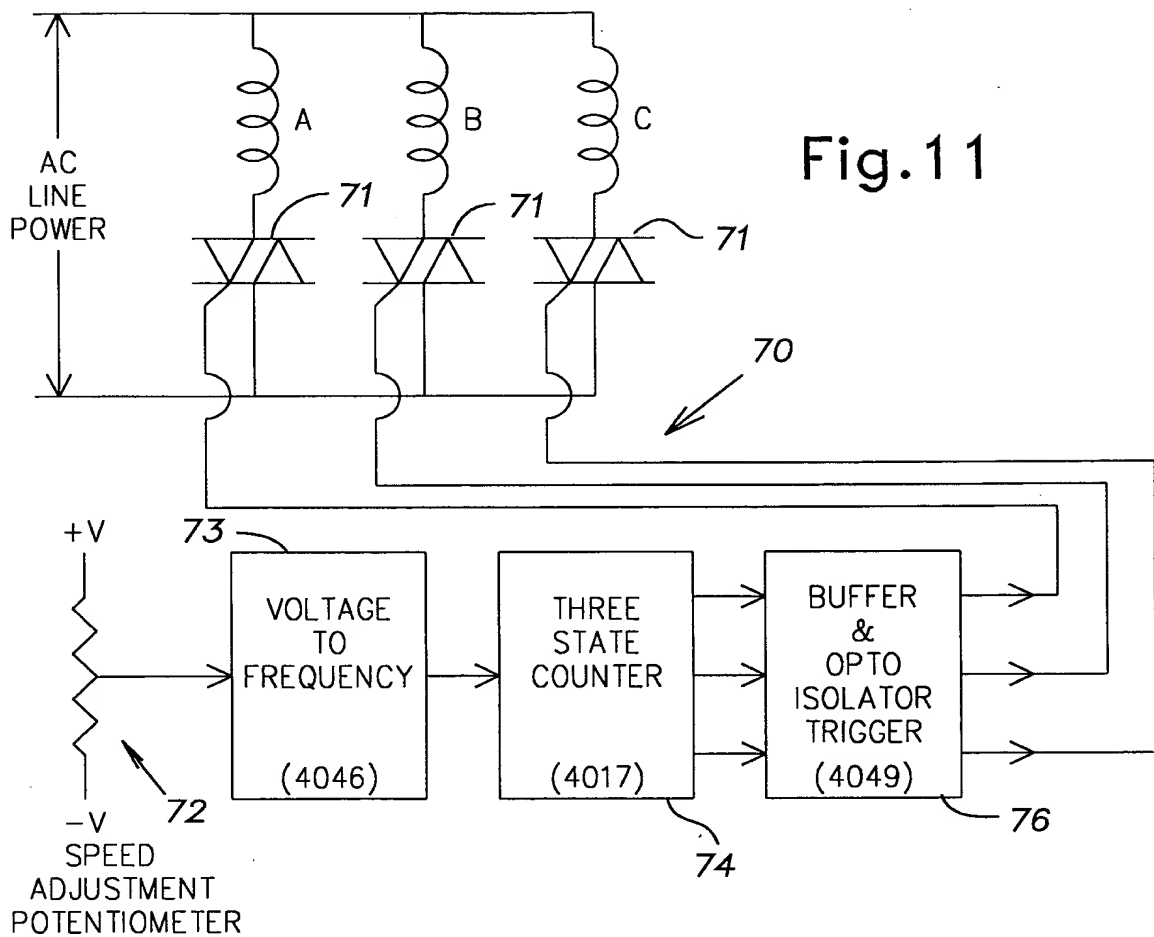
SPEED ERROR
SIGNAL LEVEL

FIG.8C



OUTPUT AT
PIN#7 IC13

FIG.8D



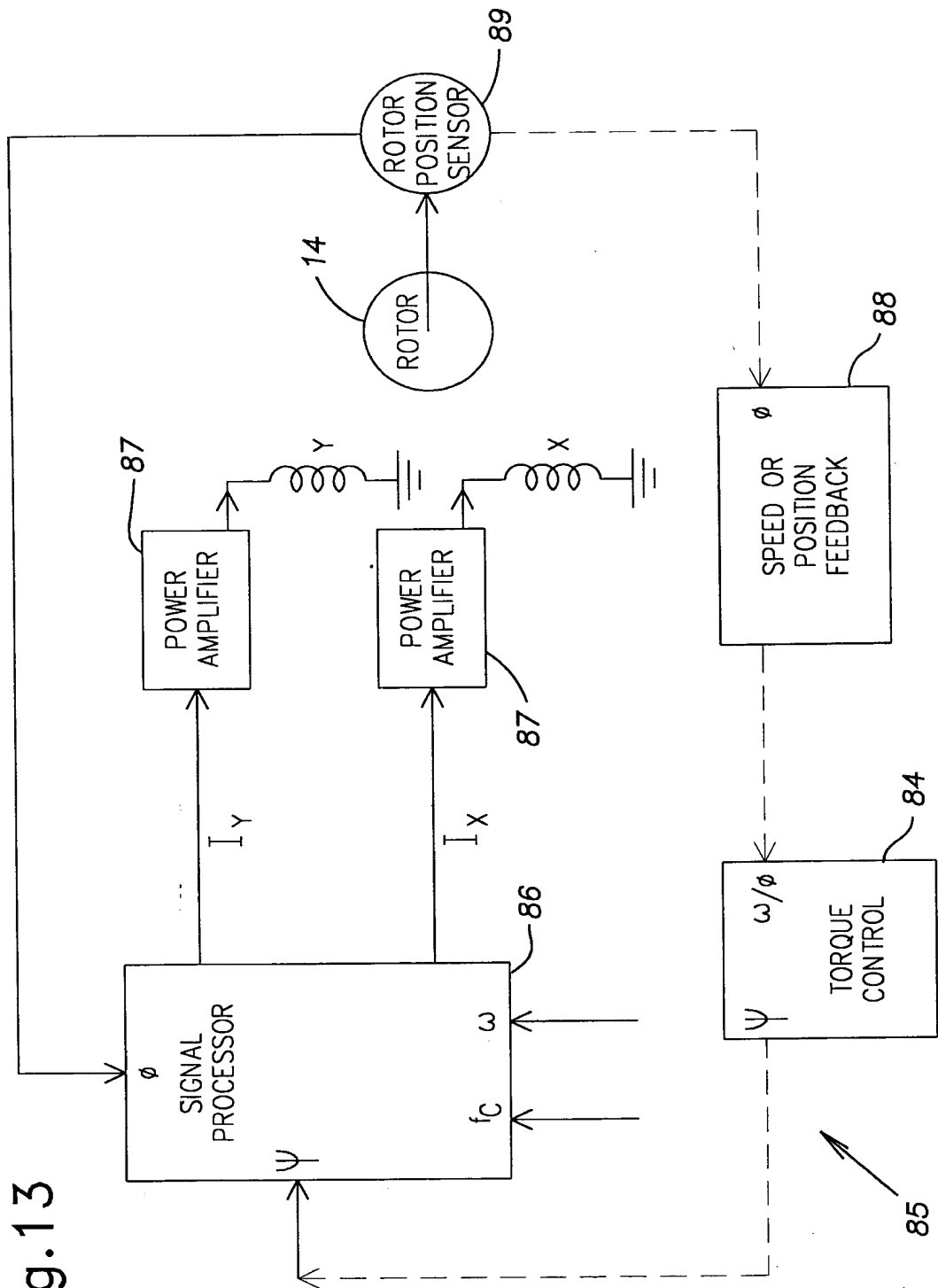


Fig.13



FIG. 14

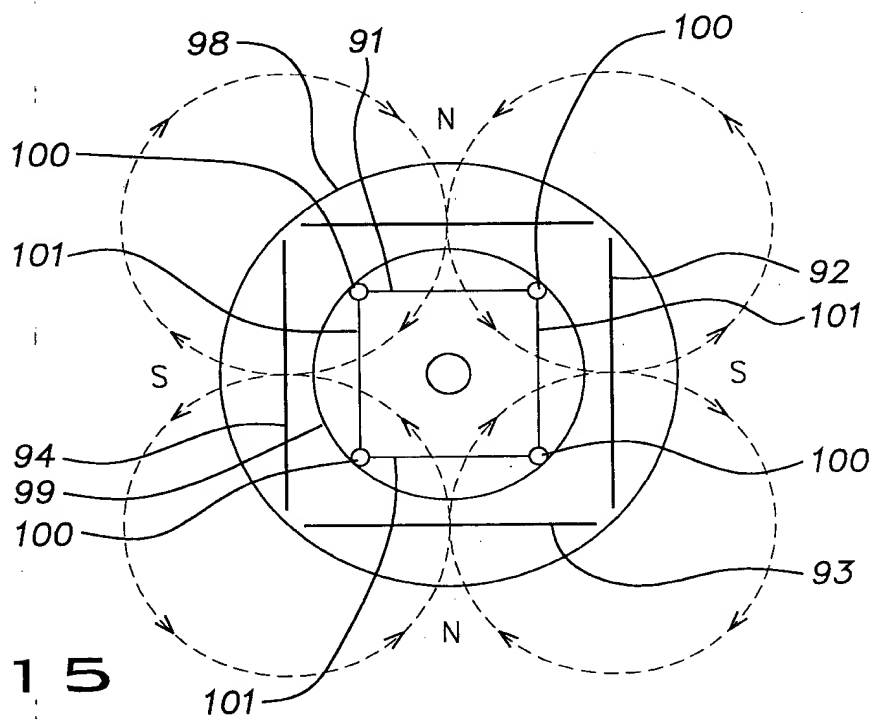
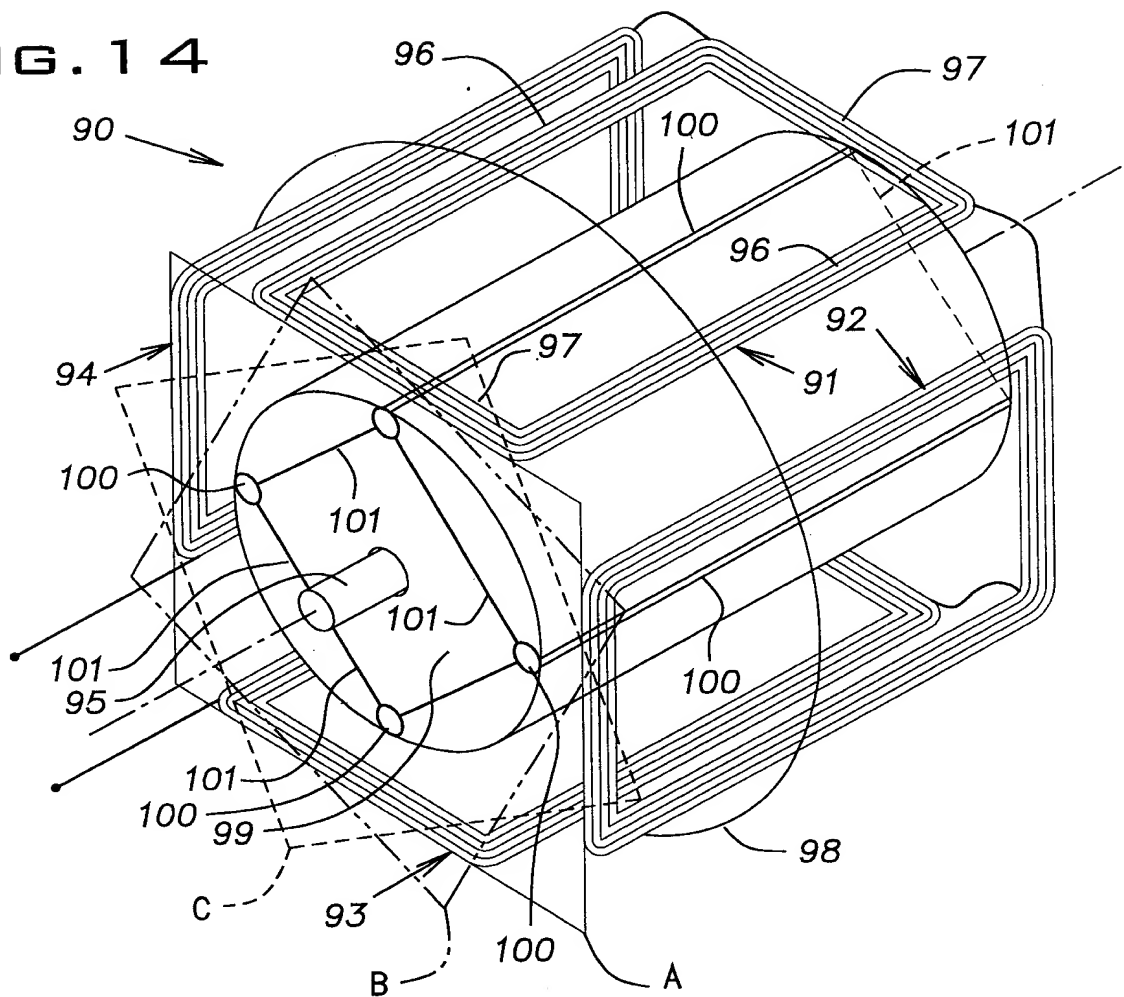


FIG. 15